3G REMOTE CAMERAS

User Manual

Thank you for purchasing the 3G Remote Camera. The user manual illustrates how to operate this product so please read the user manual carefully before using it.

With this high-tech wireless equipment, you can detect anywhere at anytime by dialing video calls with 3G mobile phone. The 3G remote camera can be widely used in house, school, shop, moving cars, trains or take care of elders and children as long as WCDMA network is available.

Modern design 3G Remote camera matches excellent 300,000 pixel camera, you can send SMS command to make images and videos store in the camera. With the built-in high-light infrared LED, the camera can shoot clear film even in darkness.

The Remote camera is compatible with normal 315 MHz or 433 MHz wireless sensor in the market, such as wireless infrared motion detector, door sensor, smoke detector etc, and all of them are wireless, easy to use. You can also select any kind of sensor mentioned to work with our product. You or your family or your guards can receive the alarm message with your preset ways such as SMS ,voice call, video call which are stored as evidence when the wireless sensor was triggered.

All services and functions needs to be supported by the network and USIM card. Detailed operation and product functions, please refer to this brochure.

For Your Safety

- The product complies with the relevant Chinese standard about electromagnetic compatibility. However, please keep away from electronic equipment which is likely to interfere by the wireless signal, to avoid the signal interruption.
- Switch off this product in any area marked "Explosive", "might explode", "closed wireless transceiver devices" etc.
- Do not dispose the product in a fire; otherwise, it may cause the battery explosion.
- Only use the power adaptor approved by the product manufacturer. The use of any other types may damage the product
- Keep the product and the accessories out of the reach of children.

Declaration

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Chapter 1 Product Features

- This product uses USIM card, supporting WCDMA 3G network
- Matching CMOS camera and infrared led, it supports wireless video monitoring in 24 hours
- You can send SMS to control camera remotely and check anywhere secretly and safely
- Multimode alarm: Camera can send alarm messages by SMS, video call, voice call
- Sensor detection: Max 15 wireless alarm sensors can be added.
- Support to record the alarming image to the camera
- Up to 10 telephone numbers can be pre-stored in the system
- Wireless remote control: it can arm ,disarm or send emergency alarm
- Special Camera: 300,000 pixel CMOS camera.
- Easy installation: Wireless connection. The product can be installed at any place you wanted.
- Built-in Lithium battery: Rechargeable battery ensuring operation in case of external power failure
- Real-time video: you can call the video phone to check the image of monitoring area anytime and anywhere.
- Application: taking care of the elders and children, in house, school, monitoring shop, bus, ship, and train etc.

Chapter 2 Terms Explanation

Any mobile phone compatible with WCDMA can see the monitoring area by dialing video call.
Any mobile phone with SMS function can control the remote camera with SMS command.
Make sure to remember the product’s password and USIM number. Don’t disclose to others to ensure your privacy safety.

User Authorization Level:

There are two levels remote camera user with different authority:

Master (only one): Master needs to store his/ her mobile number into the camera first. Otherwise, all the functions of the remote camera are disabled. Only one master mobile number can be set in the remote camera. The camera will send the alarm message to master's mobile number and his/her family or emergency numbers set by the master. Master should clearly remember the password and USIM number. Only master has the authority to change the camera password and the family or emergency numbers.

Normal user (max 10): Users' members have the right to access to video call, add the sensor & remote control, and receive alarm. Their numbers are set by the master.

Difference authority between Master and normal users:

Function \ User Type		Administer	Normal users
Change user list		√	×
Automatic Alarm	Receive SMS	√	×
	Receive voice alarm calling	√	√
	Receive video alarm calling	√	√
Dial the phone number	Monitor by dialing voice call	√	√
	Monitor by dialing video call	√	√
Send SMS command		√	√
Add, modify ,delete sensor		√	√
Check status and obtain command help		√	√
Change password		√	×
System Recovery		√	×

Arming/ Automatic alarm

Arming is to make the remote camera in working status. In this status, all connected wireless sensor are in working.

Under the arming, if any wireless sensor is activated, camera will send SMS or Video to call master mobile phone or automatically dialed master number to inform alarm immediately. If the master doesn't answer the call, it will dial the next pre-set numbers until answered. This process will repeat three times, then exit dialing mode automatically if none of the pre-set numbers answered.

Disarming

Disarming is to deactivate the remote camera. All connected wireless sensors don't work unless pressing the emergency key.

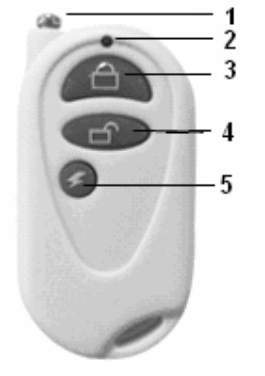
Incoming video call

Real-time video can be turned on when administer or normal users call the camera

Setting

All the set to this product can be completed by sending SMS

Remote control illustration



Picture 2: Remote control Instructions

1. Antenna 2.Indicator light
3. Arming key 4. Disarming Key

5. Emergency key

Indicator light Status Instruction

Color	**Action**	**Status**
Red LED	Flash slowly	Searching the network.
	Flash quickly	Sensor alarming.
	Continuously on	Not installed SIM card, or the remote camera damaged.
Green LED	Continuously on	Arming, Open the auto-alarm function.
	Flash slowly	Disarming. Close the auto-alarm function.
	Flash quickly	Processing data.
Orange	Flash	Wait to load remote control.

Chapter 3 Installation

1. Install the USIM card

Remove the rubber cover from the left side of camera. Open the USIM card slot by pressing the small dot beside the USIM card slot with the tip of a pencil, and pop-up the slot. Insert the USIM card into the slot then push the slot back to its place, get back the rubber cover.

2 The use methods of base board or bracket.

2.1 Extend camera base board

Hold the two sides of the camera and pull the head of it, and the slot buckle will be opened. Stand the head of the camera now and move it at any direction.

2.2 Install the host in the bracket(you can fix the bracket with screw then install the host)

Connect the adapter to an AC power, and connect the mini-USB plug to the power interface of the camera.

The product has a built-in rechargeable Lithium battery. The camera will notify you when the power supply changed. For example, if the power adapter is disconnected or the AC power is cut off, it will show "**AC power off**". If the power adapter is connected again, it will show "**AC power recovered**".

2. Fix base board (bracket)

Fix the base board or bracket on the wall with the screws or located at suitable flat place, having the camera opposite the monitoring area you need.

Choose the Installing position:

- For better image quality, avoid the bright light irradiated directly into the lens of the

camera.

- It is suggested to located the camera at the place where can look down the monitoring place with the minimum angel 30°.To prevent to be stolen, it is suggested that the camera is located at the place above the ground more than 2.2 meters.
- If 3G network is weak, the system will change to GSM network and video call prohibited; Therefore, the camera should be located at the place where strong network signal available.
- After installation, try to dial video call with 3G cell phone to check the video image, Re-locate the remote camera and adjust the camera's angle to get best image.

Chapter 4 Quick Start

Note：Assure that USIM doesn't activate the caller transferring function and in coming call display; close the PIN code as well.

Power on/ off

Power on: turn the power switch to upside "On" position. The indicator light will be on continuously with red color for 3-5 seconds, then change to flash slowly. After about 35 seconds, the indicator light changes to green color and flashes slowly (indicates disarming status) or green color lighted continuously (indicates arming status), which indicates that the camera has found the network and begun to work. At this moment, a sound of "tick" can be heard from the camera. More information of the status please refers to indicator light status instruction.

Power off: Turn the power switch to downside "Off" position.

1. Start Remote camera

Edit and send the following SMS to camera: # master #
After sending the above SMS successfully, your phone will get a reply SMS: "Welcome to use 3G remote camera, the password is********".
At this moment, your telephone has been set as authorized Master number.

2. Active remote control

After starting, press and hold the "Set" key at the rear board of the camera for 2 seconds. The indicator light changes to flash with orange color indicating that the camera has switched to loading status. Then press any key of the remote control to send signal to the camera, the indicator light of the remote control will turn on. After receiving the new remote control signal successful, a "tick…"can be heard from the camera. Press "Set" key again to exit the loading status. Otherwise,

it will automatically exit after 30 seconds.

3. Arming

Press “Arming” key directly on the remote control.

If successful set, a “tick…” sound can be heard from the camera and the indicator light of the camera will turn on continuously with green color.

4. Disarming

Press “Disarming” key directly on the remote control.

If successful set, a “tick…” sound can be heard from the camera and the indicator light of the camera will flash in green color.

5. Incoming video call

Master and normal users who dial the camera with 3G mobile phone can watch the monitoring area after 6 “tick…” sound.

Unauthorized access will be rung up when dialing.

6. Press the emergency key to trigger an alarm :

Press the emergency key on the remote control, the camera will firstly send SMS to master to inform SOS and then dial the phones of master or users members one by one. However, if the 3G network not available, the camera will dial the voice call until getting through.

Chapter 5.perform the operation

1. Activate remote camera

(Authority: Master)

When first time using or after resetting the remote camera, it needs to set the master number to activate the camera so that it can automatically send alarm message to the master.

Master should send a SMS command camera like this: *#master#*

After activating the camera, it will reply you: “Welcome to use remote camera, the password is 1234”.

Note: If the camera has been activated before, the old master number will be saved in it. If you try to activate it again, it will reply SMS “Master already exists”.

2. Modify the password

（Authority: Master）

Modify the password of the camera after initiation to ensure operation safety.

Only master can change the password. Master can send following SMS command to camera to change the password:

#password# *old password # new password #*

For example： #password #1234#8888#

The password is a 4-digit number. The default password is 1234. After succeed to change the password, the camera will send SMS to you: “The password has been successfully changed. The new password is ****”. If others send above SMS command to camera, it will reply “Sorry, you are prohibited to request this command”.

3. Modify the telephone number of master

（Authority: Master）

Only the master can modify the telephone number of master. Old master can send following SMS command to camera to change the password:

“#newmaster#new master telephone number #”

For example： #newmaster#13565802288#

After successful set, the old master will receive the SMS “The new number is *********”. Old master number didn’t have the authority to control the camera any more.

Add/delete the telephone number of normal users

Only the master can add or delete the telephone number of users. Or others will receive the message “sorry, you don’t have the right to operate”.

4. Add the telephone number of normal users：

（Authority: Master）

To be a user’s member, the master can send following SMS to store the user’s member’s cell phone number into the camera. Maximum 10 user’s numbers can be stored.

Add the telephone number of normal users，the format is as followed：

#adduser#users members telephone number#

For example： #adduser#13477887788#

After successfully set，the camera will reply：The user number ****** has been successfully added”.

If you add more than 10 telephone numbers，the camera will send the following SMS to your mobile “The user numbers are full. Please delete numbers before you add new ones. ” If you set the same telephone number the second time, the camera will send the following SMS to your mobile “user number already exists”.

5 Delete the telephone number of normal users：

（Authority: Master）

The master can send any SMS to the camera and delete certain telephone number of users' members

the format is as followed：

deluser#users members telephone number

Delete all the users members' telephone numbers，the format is as followed：

deluser

After successful deletion of phone number，the camera will send the following SMS "User number ******** deleted successfully"，or reply "Fail to delete user number *******" ；

If the format of users members is incorrect in SMS，the camera will send the SMS "The user number ****** is invalid, please check and try again."

6. The operation illustration of wireless remote control

3 keys：Arming, emergency key, Disarming .

When press the Arming key, the camera indicator will turn on green, and the camera enter into the defense state. If the wireless detector is activated by intrusion the camera will alarm and dial out video call, voice call, and send SMS.

When press the Emergency key, the camera indicator will turn to green and flash quickly. The camera will dial the master number and the emergency numbers orderly. Live voice can be heard by answering the calling. It will call master and all user numbers three times till answered, then exit dialing automatically.

When press the Disarming key, the camera indicator will turn green and flash slowly. The camera will be out of defense state. In this state, the camera can alarm only by pressing the Emergency key.

A "tick…" sound can be heard from the camera by pressing any remote control key.

6.1 Add wireless remote control

Press the set key on the rear board and the indicator light turns to flash slowly with orange color. Then press any key of the remote control. When the host receives the new wireless remote control signal, a "tick …" sound will be heard and the indicator light will turn green for 2 seconds then turn to orange, and flash slowly. User can continue to add other more remote controls at this moment. The camera will automatically exit from the loading status after 15 seconds, or press the set key to exit directly.

Max 5 remote controls can be added.

6.2 Delete remote control

(Authority: Master, normal users)

Master or normal users can send following SMS to camera:

#delre#

Camera will reply “All remote controls deleted successfully”. If guest send above SMS command to camera, it will reply “Sorry, you do not have the right to operate”.

6.3 Arming

(Authority: Master, normal Users)

If the camera indicator light shows in green color and flashes, it indicates that the defense status has been canceled (no alarming status). To recover the defense/arming state, you can do following operation:

Method 1: send following SMS to camera.

Master and normal users: *#arm#*

Method 2: Press the “Arming” key on the remote control directly and you can hear “tick …” sound indicating successful operation.

The camera will reply you SMS “Arming successfully” ,and the indicator light on the camera will turn green and keep on continuously.

6.4 Disarming

(Authority: Master, Users)

In disarming status, camera will not alarm (Unless press the emergency key on the remote control).

All connected wireless sensors do not work.

Method 1: send following SMS command to camera:

Master and normal users： *#disarm#*

Method 2: press the key of “Disarming” on the remote control. You can hear “tick…” sound if operation successful. And receive “Disarming successfully” SMS. Then the indicator light turns green and flashes.

7 wireless sensor

(Authority: Master, normal Users)

Any 315MHz (or 433MHz) wireless sensor, such as infrared motion detector wireless door magnet, wireless smoke sensor etc, can be set as alarm sensor of the camera.

Add wireless sensor:

1） Power on the wireless sensor.

2） Master or normal users send following SMS command to camera and the camera will enter into the state to add new wireless sensors: status:*#add sensor#sensor name#*

The sensor name should be English or Arabic number, Max 50 letters. It is named by Master to identify different alarm in the future.

For example： #addsensor#door#

If the SMS doesn't contain the name of sensor，you can send #addsensor# to the camera.

After receiving the SMS command, the camera will sound "tick…" sound and the indicator light will flash with red and green alternately. Then send SMS "Waiting to add/learn sensors. Trigger the sensor to send signal immediately" How to trigger sensor to send signal? For example, for wireless door magnet, make it open and close once to send the signal to the camera. If the sensor added successfully, the camera will sound "tick…" sound, then exit the learning status, and reply "Adding sensor successfully".

If the camera fails to load the sensor or no sensor exists, the indicator light of the camera will flash with red and green alternately for about one minute, then the camera will exit the loading status automatically and back to the previous arming or disarming status.

Max 15pcs wireless sensors can be added to the remote camera. If reaching its max number, the camera will send SMS: "The sensors are full. Please delete old sensors before add new ones."

If the sensor description invalid, the camera will reply "Sensor name invalid, please rename the sensor".

Delete all wireless sensors:

Master or users send following SMS to camera:

#delsensor#

After successful deletion, it will reply "All sensors deleted successfully"

Guest is forbidden to do this operation. If guest send above SMS command to camera, it will reply "Sorry, you do not have the right to operate".

8. Infrared light

(Authority: Master, normal users)

Infrared light enable the camera to have a real time video clearly in dark night. Camera can control the infrared light automatically. However, if AC power failure and user wants to close the infrared light to save the battery power, master or normal users members can send following SMS command to close the infrared light.

Close infrared light:

Send the following SMS to camera: *#ir#0#*

After successful set, it will reply "Infrared light closed".

Once turn off the infrared light, it can't take clear video in dark night. User needs to send SMS to start the infrared light.

Turn on infrared light: (default setting)

Send the following SMS to camera: *#ir#1#*

After successful set, it will reply "Infrared light turns on "

9. Take photos

(Authority: Master, normal users)

After receiving SMS command of taking photos, the camera begins to capture images. The imagine quantity is decided by the SMS command, max 9 photos.

Send the following SMS to camera：#shot#image quantity#

System begins to take photos according to the quantity in the SMS and store them in the camera

After successfully set, camera will reply "Set of photo taken successfully"

10. Video record

(Authority: Master, normal users)

After receiving SMS command of recording video, the camera begins to record video. The time can be set within 3600 seconds.

Send the following SMS to camera： #record#time(0-3600) #

After succeed setting, camera will reply "setting of video record successfully"

Record video when taking a video call：

When wireless sensor or infrared motion detector triggered, the camera system will start to dial video call and record it in "flash" when the video call answered. Users can also read the video document by inserting USB port to computer to provide the proof to Police for investigation.

11. Automatic alarm

Master or normal user sends following SMS command to set the automatic alarm method:

(Authority: Master, Users)

Open buzz alarm:

Master and normal users send following SMS:

#beep#1#

After successful set, the camera will sound "tick…" sound when alarming.

Close buzz alarm (Default):

Master and normal users send SMS: #beep#0#

Not send SMS when automatic alarm: *#sms#0#*

After successful set, camera will reply "Set automatic alarm without SMS successfully"

Send SMS when automatic **alarm** (Default): *#sms#1#*

After successful set, camera will reply "Set automatic alarm with SMS successfully"

Call voice phone when automatic **alarm：**

#call#0#

After successful set, camera will reply “Set alarm automatic with voice call dialing successfully”

Call video phone when automatic **alarm：（default）**

#call#1#

After successful set, camera will reply “Set automatic alarm with video cell phone dialing successfully”

If you set alarm with video cell phone dialing but no 3G network available, the camera will automatically converts to Voice call.

12. Image parameter setting and volume adjustment

(Authority: Master, normal users)

Master and normal users can activate the real-time video by dialing voice phone with 3G cell phone; meanwhile, it can also set image brightness, focus, direction and volume.

The operation definition of the correspondent key in video call as followed:

“1” Zoom in

“2” Zoom out

“3” brightness increase

“4” brightness decrease

“5” Image direction

“*”volume up

“#” volume down

13. Check status

(Authority: Master, normal Users, Guest)

If user wants to know the present setting and work status of camera, he/she just needs to send one of following SMS to camera, it will reply SMS including all settings (except the password.).

For master and normal users ： # getstatus #

For guest： # getstatus *#password#*

14. Getting help

(Authority: Master, Users, Guest)

If forget the SMS command, user can send SMS to get the help.

Get normal command help:

(Authority: Master, normal users, guest)

User sends following SMS command to camera:

For master and normal users： #help#

15. Reset the camera

(Authority: Master)

If the remote camera setting is wrong, or fail to work even after restarting the camera,

The following methods will enable the remote camera recover to original settings (clear of all users' setting), and back to regular working status:

Using the master's phone to send the following SMS to camera：

#begin#***password***#

After the successful factory default setting,：“System Recover successfully.”

Note ：

This SMS command must add password#， or the camera will reply the SMS “order wrong”. Only the master have the right to make the camera recover to original settings. The others who send this command will receive the SMS “ Sorry, you do not have the right to operate”

Chapter 6 Maintenance

1. Store and use the remote camera in suitable temperature. Too high or too low temperature may damage the device.
2. Try to keep the Host and all its accessories dry. Do not store and use it in the bathroom, or other place with high humidity. Do not allow water or other liquids into the camera, otherwise, it might cause malfunctions.
3. Do not store and use the camera in dusty environment.
4. Do not use alcohol, acetone and other similar solvents to clean it. Wipe it with soft-wet cloth.
5. Do not attempt to open it randomly. If the camera does not work normally, try to resolve it as the guide of the "general troubleshooting", or the problem can not be solved, contact the dealer immediately.
6. Charge the battery at least 12 hours at the first time after power off to achieve the full performance of the battery. To increase the life-span of the battery, connecting the camera Host to the power supply to automatically charge the built-in Lithium battery for 4 hours every 3 months, if the camera does not use for long time.

Chapter 7. Common malfunctions

No	Trouble description	Possible Reason	Solution
1	Can't start camera (Indicator light works)	Other master already set in the camera.	Recover to original default setting.
2	All functions disable (Indicator light works)	Calling line presentation or MMS functions of the USIM card does not active, insufficient fee of the USIM card.	Contact network provider to active USIM card function. Pay for the card.
3	Indicator light is constantly in red color.	Can't find or identify the USIM card;	USIM card not install properly: Power off the camera and check it again.
4	Camera didn't response to any operation.	Camera work abnormally.	Switch off the power, check USIM card, or reset to factory setting.
5	After starting the camera, indicator light flashes in red color and can not turn to green.	Network signal weak or network busy.	Place the camera at other place with strong signal and try again.
		PIN code of USIM card active.	Close the PIN code.
		USIM card invalid.	Contact with local operator to check of it.
6	Remote control can't work. Or work slowly. Or operating range shortened.	Camera low power.	Connect external power to recharge the battery
		Remote control low battery.	Change remote control battery.
		Didn't pull out the antenna.	Pull out remote control antenna.
		Didn't pull out the antenna.	Try only one remote control.
7	Can not add new remote control or wireless sensor	The remote control or sensor already exists	Exit the loading status.
		The sensor quantity already reaches its max number.	Delete old sensors before add new sensor.
		Didn't set master number	Set master number before add sensor.
8	Can't start the camera after long	Battery runs out of power.	Connect the camera to external AC power and charge for at least one

No	Trouble description	Possible Reason	Solution
	time supplied with the battery only.		hour, then, restart camera.

If the above operations can not solve the problem you meet, please contact local distributor.

Chapter 8 Main Technical Parameters

Power adaptor	Input: 100V～240V/50Hz Output: 5.5V DC
Work temperature	-10℃～+45℃
Store temperature	-20℃～+60℃
Relative Humidity	10-90%，without condensation
Working frequency:	HSDPA/UMTS 850/1900/2100 MHz
	EDGE/GPRS/GSM 850/900/1800/1900 MHz
Wireless sensor receiving code	ASK
Wireless sensor receiving frequency	315/433 MHz
Wireless sensor baud rate	500-2500bps
Max wireless sensor	15unites
Effective distance of the wireless remote control	100 Meters (wide area)
video format	3GP
Camera pixel	300K pixel
Camera Shooting angel	60 degree（horizontally），60degree（vertically）
Best shooting distance in night	≤6 meter
Lithium battery	800mAh
Battery standby time	24 hours（close the infrared light ）Affected by network）

Appendix: SMS command list

User	Function	SMS Command
Master	Activate	#master#
		Refer to Chapter 4. Quick Start 1. Start remote camera.
Master	Modify password	#password#***old password***#***new password***#
		Refer to Chapter 5. Advanced operation, 2. Modify the password
	Modify Master number	#newmaster#newmaster number #
		Refer to Chapter 5. Advanced operation, 3. change master number.
	Add users number	#adduser#users number#
		Refer to Chapter 5. Advanced operation, 4. Add users number.
	Delete users number	#deluser# users number#
		Refer to Chapter 5. Advanced operation, 5. Add or delete users number.
Master and users	Set defense	#arm#
		Refer to Chapter 5. Advanced operation, 6. 3 Set defense.
	Cancel defense	#disarm#
		Refer to Chapter 5. Advanced operation, 6.4 Cancel defense.
Master and normal users	Add or modify sensor	#addsensor#*sensor description*#
		Refer to Chapter 5. Advanced operation, 7. wireless sensor.
	Delete sensor	#delsensor#
		Delete all sensor, refer to Chapter 5. Advanced operation, 7. wireless sensor.
	Delete remote control	#delre#
		Refer to Chapter 5. Advanced operation, 6.2 Add or delete remote control.
Master and normal users	Close infrared light	#ir#0#
	Turn on Infrared light	#ir#1#
		Refer to “5、advanced operation，8、infrared light”
Master and normal users	take photos	#shot#image quantity#
		image quantity(1 to 9), Refer to Chapter 5. Advanced operation,9 take photos
Master and	video record	#record#time(0-3600) #

normal users		time(0 to 3600), Refer to Chapter 5. Advanced operation,10.video record
Master and normal users	No SMS when alarm	#sms#0#
	Send SMS when alarm （default）	#sms#1#
Master and normal users	Dail voice phone when alarm	#call#0#
	Dail videotel when alarm	#call#1# Refer to “5、advanced operation，11、Automatic alarm”
Master and normal users, Guest	Check status	#getstatus#
		Refer to “5、advanced operation，13、Check status
	Get help	#help#
		Refer to “5、advanced operation，14、Getting help
Master	Reset the camera	“#begin#password#”
		Refer to “5、advanced operation，15、 Reset the camera